

Amendments to the Specification:

Please replace the paragraph beginning at page 1, line 1 with the following:

This application claims priority from U.S. Provisional Application Serial No. 60/425,204, filed November 8, 2002, and from International Application PCT/DK03/00763, filed November 7, 2003, each of which is hereby incorporated by reference in its entirety.

Please replace the paragraph beginning at page 4, line 12 with the following (please note that the text on page 4, line 21 “tAPPAHGVtSAPDTRPAPGstAPP” has not been added by way of this amendment. This text was underlined in the specification as filed and it should be underlined in the unmarked version of this paragraph) :

One example of this is the glycosylation of the cancer-associated mucin MUC1. MUC1 contains a tandem repeat O-glycosylated region of 20 residues (HGVTSAPDTRPAPGSTAPPA) (SEQ ID NO: 1) with five potential O-glycosylation sites. GalNAc-T1, -T2, and -T3 can initiate glycosylation of the MUC1 tandem repeat and incorporate at only three sites (HGVtSAPDTRPAPGstAPPA, GalNAc attachment sites in lower-case). GalNAc-T4 is unique in that it is the only GalNAc-transferase isoform identified so far that can complete the O-glycan attachment to all five acceptor sites in the 20 amino acid tandem repeat sequence of the breast cancer associated mucin, MUC1. GalNAc-T4 transfers GalNAc to at least two sites not used by other GalNAc-transferase isoforms on the GalNAc₄TAP24 glycopeptide (tAPPAHGVtSAPDTRPAPGstAPP, SEQ ID NO: 2) GalNAc attachment sites in lower case)¹⁰. An activity such as that exhibited by GalNAc-T4 appears to be required for production of the glycoform of MUC1 expressed by cancer cells where all potential

sites are glycosylated ¹². Normal MUC1 from lactating mammary glands has approximately 2.6 O-glycans per repeat ¹³ and MUC1 derived from the cancer cell line T47D has 4.8 O-glycans per repeat ¹². The cancer-associated form of MUC1 is therefore associated with higher density of O-glycan occupancy and this is accomplished by a GalNAc-transferase activity identical to or similar to that of GalNAc-T4.

Please replace the paragraph beginning at page 11, line 21 with the following:

Figure 2 is a multiple sequence alignment (ClustalW) of putative lectin domains derived from 16 human polypeptide GalNAc-transferases. ~~Positions~~ Positions of conserved motifs CLD and QxW in the α , β , and γ repeats are indicated. The numbering indicated in the margins reflects numbering of the analysed sequence region of each GalNAc-transferase. Conserved residues are indicated by black ~~boxing~~ boxing.
(SEQ ID NO: 3-18)

Please replace the paragraph beginning at page 28, line 28 with the following:

Expression to produce functional lectin domains of polypeptide GalNAc-transferases without the catalytic unit (or activity) can be carried out in any number of conventional expression systems familiar to those skilled in the art. In one embodiment, GalNAc-transferase lectins are expressed in a secreted soluble form, which can be recovered from the culture medium. Such secreted soluble forms lack the N-terminal cytoplasmic tail, transmembrane retention sequence, stem region and the catalytic unit. The boundaries of the catalytic units and lectin domains are defined by multiple sequence alignments and experimentation of lectin binding activity (multiple sequence alignment analysis of the C-terminal sequences polypeptide GalNAc-transferases including the most C-terminal boundaries of the catalytic domains and the entire lectin domains shown in Figure 2). The boundaries cannot be clearly defined but the most C-terminal well-conserved sequence motif of the catalytic units (WYLENVYP) (SEQ ID NO: 19) can be excluded from the lectin domains. Parts of or the entire catalytic domains may be included to produce

functional lectin domains, and inclusion of inactivating mutations in the catalytic units (e.g. mutations in the DxH motif important for donor substrate binding, or residues important for acceptor substrate binding ⁴) may be used to avoid additional binding activity mediated through the catalytic units. In another embodiment, host cells (e.g. CHO cells) are engineered to express full coding polypeptide GalNAc-transferases with or without mutations in their catalytic units and binding mediated through lectin domains are determined in vivo in host cells.

Please replace the paragraph beginning at page 48, line 21 with the following:

Polypeptide GalNAc-transferases are highly conserved throughout evolution. Orthologous relationships can be defined from man to *Drosophila*, ~~48~~ ⁴⁸ and orthologous members of all human polypeptide GalNAc-transferase isoforms are clearly identifiable in mouse and rats, and likely all mammals.

Please replace the paragraph beginning at page 48, line 25 with the following:

Polypeptide GalNAc-transferases are predicted to be type II transmembrane Golgi-resident proteins with a domain structure depicted in Figure 1 ~~2~~ ². The N-terminal cytoplasmic tail, the hydrophobic transmembrane signal sequence, and the stem region may be involved in directing Golgi-localization ~~47~~ ⁴⁷. The catalytic unit of the enzymes is approximately 300-350 amino acid residues and highly conserved in primary sequence among isoforms and also throughout evolution of the gene family ~~3,48~~ ^{3,48}. The C-terminal region of approximately 130 amino acids exhibits similarity with the galactose binding lectin, ricin. This region shows little sequence similarity among isoforms and is poorly conserved in evolution ~~3~~ ³.

Please replace the Table beginning at page 50, with the following:

TABLE I. Primers used for PCR of soluble secreted GalNAc-transferase expression constructs.

GalNAc-T1:

EBHC121H: 5'-GCGGGATCCAGGACTTCCTGCTGGAGATG-3' (SEQ ID NO: 20)

EBHC107B: 5'-GCGGATCCTCAGAATATTTCTGGAAGGG-3' (SEQ ID NO: 21)

GalNAc-T2:

EBHC75D: 5'-GCGGAATTCTTAAAAAGAAAGACCTTCATCACAGC-3' (SEQ ID NO: 22)

EBHC68: 5'-GCGGAATTCCTACTGCTGCAGGTTGAGC-3' (SEQ ID NO: 23)

GalNAc-T3:

EBHC219H: 5'-GCGGGATCCAACGATGGAAAGGAACATG-3' (SEQ ID NO: 24)

EBHC215: 5'-AGCGGATCCAGGAACACTTAATCATTTTGGC-3' (SEQ ID NO: 25)

GalNAc-T4:

EBHC318: 5'-GCGGGATCCTTTTCATGCCTCCGCAGGAGCC-3' (SEQ ID NO: 26)

EBHC307: 5'-GCGGGATCCGACGAAAGTGCTGTTGTGCTC-3' (SEQ ID NO: 27)

GalNAc-T5:

EBHC909: 5'-GCGGGATCCTGCTTTAACTGGAGGGCTAGAGC-3' (SEQ ID NO: 28)

EBHC907: 5'-GCGGGATCCATCAGTTACACTTCAGGCTTC-3' (SEQ ID NO: 29)

GalNAc-T6:

EBHC514H: 5'-GCGGGATCCCCTGGACCTCATGCTGGAGGCCATG-3' (SEQ ID NO: 30)

EBHC511N: 5'-AGCGGATCCTGGGGATGATCTGGGTCCTAGAC-3' (SEQ ID NO: 31)

GalNAc-T7:

EBHC1122H: 5'-GCGAAGCTTCAGGATGAGGGAAGACAGAGATG-3' (SEQ ID NO: 32)

EBHC1116H: 5'-GCGAAGCTTCTCTCTAAACACTATGGATCTTATTC-3' (SEQ ID NO: 33)

GalNAc-T8:

EBHC1820: 5'-GCGGGATCCTCTGAAAGAAAGTATGAAATTAGC-3' (SEQ ID NO: 34)

EBHC1821: 5'-GCGGGATCCTCACTGGCTGTTGGTCTGACC-3' (SEQ ID NO: 35)

GalNAc-T9:

EBHC1320: 5'-GCGGGATCCCTGCCGCCTGCAGGGCCGCTCCCAG-3' (SEQ ID NO: 36)

EBHC1321: 5'-GCGGGATCCTCAGTGCCGTCGGTGTTTGATCC-3' (SEQ ID NO: 37)

GalNAc-T10:

EBHC2520: 5'-GCGGGATCCCCGCGAGCGGCAGCCCGACGGC-3' (SEQ ID NO: 38)

EBHC2521: 5'-GCGGGATCCTCAGTTCCTATTGAATTTTTC-3' (SEQ ID NO: 39)

GalNAc-T11:

EBHC629: 5'-GCGAATTCGTGAAGTGA CT CAGCCACTTAAG-3' (SEQ ID NO: 40)

EBHC614: 5'-GCGAATTCGTCTCTGTCAGACACGTGTC-3' (SEQ ID NO: 41)

GalNAc-T12:

EBHC1051: 5'-GCGGGATCCGGCTCGGTGCTGCGGGCGCAGCG-3' (SEQ ID NO: 42)

EBHC1032: 5'-GCGGGATCCTCATAACATGCGCTCTTTGAAGAACC-3' (SEQ ID NO: 43)

GalNAc-T13:

EBHC2000: 5'-GCGGGATCCGATGTTGCACVVTCCCCACCACACC-3' (SEQ ID NO: 44)

EBHC2002: 5'-GCGGGATCCTCATCGTTCATCCACAGCATTG-3' (SEQ ID NO: 45)

GalNAc-T14:

EBHC1720: 5'-GCGGGATCCTCTGCTGCCTGCATTGAGGGCTG-3' (SEQ ID NO: 46)

EBH21721: 5'-GCGGGATCCTCATGTGCCCAAGGTCATGTTCC-3' (SEQ ID NO: 47)

GalNAc-T15:

EBHC412: 5'-GCGGGATCCCAAGAGGAAGTTGGAGGTGCCG-3' (SEQ ID NO: 48)

EBHC438: 5'-GCGGGATCCCAGGGGTCTCAAGAGCTCACC-3' (SEQ ID NO: 49)

GalNAc-T16:

EBHC1913: 5'-GCGGGATCCCTACTACTTATGGCAGGACAACCG-3' (SEQ ID NO: 50)

EBHC1912: 5'-GCGTCATGTGTGTGGCAACAGCTGCCACTG-3' (SEQ ID NO: 51)

Please replace the paragraph beginning at page 51, line 1 with the following:

Expression constructs were amplified by PCR using 20 ng plasmid DNA as template. Expand High Fidelity-kit (Roche) was used as recommended by the manufacturer using an ABI2700 thermocycler (Applied Biosystems). Products were digested with *Eco*RI (GalNAc-T2, -T11, -T12 and -T16), *Bam*HI (GalNAc-T1, -T3, -T4, -T5, -T6, -T8, -T9, -T10, -T13, -T14 and -T15) and *Hind*III (GalNAc-T7), and sub-cloned into the *Eco*RI or *Hind*III site of pBKS-Histagl or the BamHI site of pBKS-HistagII. PBKS-Histag-I and -II vectors were generated from pBluescrip (Stratagene), by inserting a fragment encoding 6xHis, a thrombin cleavage site, and a T7 antibody site. pBKS-Histag-I was modified with the sequence:

5'-GCGGCCGCTCTAGAACTAGTGGATCCAGCAGCCATCATCATCATCACAGCAGCGGCC
TGGTGCCGCGCGGCAGCCATATGGCTAGCATGACTGGTGGACAGCAAATGGGTTCGCGGAATTCCGATATC
AAGCTTATCGATACCGTCGACCTCGAG-3'. (SEQ ID NO: 52)

Please replace the paragraph beginning at page 51, line 13 with the following:

pBKS-Histag-II was modified with the sequence:

5'-GAATTCGCGGCCGCGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCG
GCAGCCATATGGCTAGCATGACTGGTGGACAGCAAATGGATCCACTAGTTCTAGAGCGGCCGC-3'. (SEQ ID NO: 53)

Please replace the paragraph beginning at page 51, line 24 with the following:

Human GalNAc-T12 DNA sequence:

ATGTGGGGGCGCACGGCGCGGCGGCGCTGCCCCGCGGAACTGCGGCGCGGCCGGGAGGCGCTGTTGGTGCTC
CTGGCGCTACTGGCGTTGGCCGGGCTGGGCTCGGTGCTGCGGGCGCAGCGTGGGGCCGGGGCCGGGGCTGCC
GAGCCGGGACCCCCGCGCACCCCCGCGCCCCGGGCGGCGCAGCCGGTCATGCCGCGGCCGCCGGTGCCGGCG
AACGCGCTGGGCGCGCGGGGCGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGCAGGAGGAG
AGCGTGCGGCTGCACCAGATTAACATCTACCTCAGCGACCGCATCTCACTGCACCGCCGCTGCCCGAGCGC
TGGAACCCGCTGTGCAAAGAGAAGAAATATGATTATGATAATTTGCCCAGGACATCTGTTATCATAGCATTT
TATAATGAAGCCTGGTCAACTCTCCTTCGGACAGTTTACAGTGTCTTGAGACATCCCCGGATATCCTGCTA
GAAGAAGTGATCCTTGTAGATGACTACAGTGATAGAGAGCACCTGAAGGAGCGCTTGGCCAATGAGCTTTCG
GGACTGCCCAAGGTGCGCCTGATCCGCGCCAACAAGAGAGAGGGCCTGGTGCGAGCCCGGCTGCTGGGGGCG
TCTGCGGCGAGGGGCGATGTTCTGACCTTCCTGGACTGTCACTGTGAATGCCACGAAGGGTGGCTGGAGCCG
CTGCTGCAGAGGATCCATGAAGAGGAGTCGGCAGTGGTGTGCCCGGTGATTGATGTGATCGACTGGAACACC
TTCAATACCTGGGGAACCTCCGGGGAGCCCCAGATCGGCGGTTTCGACTGGAGGCTGGTGTTCACGTGGCAC
ACAGTTCCTGAGAGGGAGAGGATACGGATGCAATCCCCCGTCGATGTCATCAGGTCTCCAACAATGGCTGGT
GGGCTGTTTGCTGTGAGTAAGAAATATTTTGAATATCTGGGGTCTTATGATACAGGAATGGAAGTTTGGGGA
GGAGAAAACCTCGAATTTTCTTTAGGATCTGGCAGTGTGGTGGGGTCTTGGAACACACCCATGTTCCCAT
GTTGGCCATGTTTTCCCAAGCAAGCTCCCTACTCCCGCAACAAGGCTCTGGCCAACAGTGTTCGTGCAGCT
GAAGTATGGATGGATGAATTTAAAGAGCTCTACTACCATCGCAACCCCGTGCCCGCTTGGAACCTTTTGGG
GATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAGACTTCAAGTGGTTCCTTGAGACTGTG
TATCCAGAACTGCATGTGCCTGAGGACAGGCCTGGCTTCTTCGGGATGCTCCAGAACAAAGGACTAACAGAC
TACTGCTTTGACTATAACCCTCCCGATGAAAACCAGATTGTGGGACACCAGGTCATTCTGTACCTCTGTGAT
GGGATGGGCCAGAATCAGTTTTTCGAGTACACGTCCCAGAAAGAAATACGCTATAACACCCACCAGCCTGAG
GGCTGCATTGCTGTGGAAGCAGGAATGGATACCCCTTATCATGCATCTCTGCGAAGAACTGCCCCAGAGAAT
CAGAAGTTCATCTTGAGGAGGATGGATCTTTATTTACGAACAGTCCAAGAAATGTGTCCAGGCTGCGAGG
AAGGAGTCGAGTGACAGTTTCGTTCCACTCTTACGAGACTGCACCAACTCGGATCATCAGAAATGGTTCTTC
AAAGAGCGCATGTTATGA (SEQ ID NO: 54)

Please replace the paragraph beginning at page 52, line 19 with the following:

Human GalNAc-T12 amino acid sequence:

MWGRTARRRCPRELRRGREALLVLLALLALAGLGSVLRAQRGAGAGAAEPGPPRTPRPGRREPVM
RPPVPANALGARGEAVRLQLQGEELRLQEESVRLHQINIYLSDRISLHRRLPERWNPLCKEKKYDYDNLPR
SVIIAFYNEAWSTLLRTVYSVLETSPDILLEEVILVDDYSDREHLKERLANELSGLPKVRLIRANKKKGLVR
ARLLGASAARGDVLTFDCHCEHEGWLEPLLQRIHEEESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFDR
LVFTWHTVPERERIRMQSPVDVIRSPTMAGGLFAVSKKYFEYLGSYDTGMEVWGGENLEFSFRIWQCGGVLE

THPCSHVGHFSPSKLPTPRNKALANSVRAAEVWMDEFKELYHRNPRARLEPFGDVTERKQLRDKLQCKDFK
WFLETVYPELHVPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYLCHGMGQNQFFEYTSQKEIRY
NTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFIHQEDGSLFHEQSKKCVQAARKESSDSFVPLLRDCTNSD
HQQWFFKERML (SEQ ID NO: 55)

Please replace the paragraph beginning at page 52, line 31 with the following:

Human GalNAc-T13 DNA sequence:

ATGCTCCTAAGGAAGCGATACAGGCACAGACCATGCAGACTCCAGTTCCTCCTGCTGCTCCTGATG
CTGGGATGCGTCCTGATGATGGTGGCGATGTTGCACCCTCCCCACCACACCCTGCACCAGACTGTCACAGCC
CAAGCCAGCAAGCACAGCCCTGAAGCCAGGTACCGCCTGGACTTTGGGGAATCCAGGATTGGGTACTGGAA
GCTGAGGATGAGGGTGAAGAGTACAGCCCTCTGGAGGGCCTGCCACCCTTTATCTCACTGCGGGAGGATCAG
CTGCTGGTGGCCGTGGCCTTACCCAGGCCAGAAGGAACCAGAGCCAGGGCAGGAGAGGTGGGAGCTACCGC
CTCATCAAGCAGCCAAGGAGGCAGGATAAGGAAGCCCCAAAGAGGGACTGGGGGGCTGATGAGGACGGGGAG
GTGTCTGAAGAAGAGGAGTTGACCCCGTTTCCAGCTGGACCCACGTGGCCTCCAGGAGGCACTCAGTGCCCGC
ATCCCCCTCCAGAGGGCTCTGCCCGAGGTGCGGCACCCACTGTGTCTGCAGCAGCACCTCAGGACAGCCTG
CCCACAGCCAGCGTCATCCTCTGTTTCCATGATGAGGCCTGGTCCACTCTCCTGCGGACTGTACACAGCATC
CTCGACACAGTGCCAGGGCCTTCCTGAAGGAGATCATCCTCGTGGACGACCTCAGCCAGCAAGGACAACCTC
AAGTCTGCTCTCAGCGAATATGTGGCCAGGCTGGAGGGGGTGAAGTTACTCAGGAGCAACAAGAGGCTGGGT
GCCATCAGGGCCCGGATGCTGGGGGCCACCAGAGCCACCGGGGATGTGCTCGTCTTCATGGATGCCCACTGC
GAGTGCCACCCAGGCTGGCTGGAGCCCTCCTCAGCAGAATAGCTGGTGACAGGAGCCGAGTGGTATCTCCG
GTGATAGATGTGATTGACTGGAAGACTTTCCAGTATTACCCCTCAAAGGACCTGCAGCGTGGGGTGTGGAC
TGGAAGCTGGATTTCCACTGGGAACCTTTGCCAGAGCATGTGAGGAAGGCCCTCCAGTCCCCCATAAGCCCC
ATCAGGAGCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGAGCGTAT
GACTCTCTTATGTGCTGCGAGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCCTGGCTCTGTGGTGGCTCT
GTTGAAATCCTTCCCTGCTCTCGGGTAGGACACATCTACCAAATCAGGATTCCCATTTCCCCCTCGACCAG
GAGGCCACCCTGAGGAACAGGGTTCGCATTGCTGAGACCTGGCTGGGGTCATTCAAAGAAACCTTCTACAAG
CATAGCCCAGAGGCCTTCTCCTTGAGCAAGGCTGAGAAGCCAGACTGCATGGAACGCTTGCAGCTGCAAAGG
AGACTGGGTTGTGCGACATTCCACTGGTTTCTGGCTAATGTCTACCCCTGAGCTGTACCCATCTGAACCCAGG
CCCAGTTTCTCTGGAAGCTCCACAACACTGGACTTGGGCTCTGTGCAGACTGCCAGGCAGAAGGGGACATC
CTGGGCTGTCCCATGGTGTGGCTCCTTGCACTGACAGCCGGCAGCAACAGTACCTGCAGCACACCAGCAGG
AAGGAGATTCACTTTGGCAGCCACAGCACCTGTGCTTTGCTGTGAGGCAGGAGCAGGTGATTCTTCAGAAC
TGCACGGAGGAAGGCCTGGCCATCCACCAGCAGCACTGGGACTTCCAGGAGAATGGGATGATTGTCCACATT
CTTTCTGGGAAATGCATGGAAGCTGTGGTGCAAGAAACAATAAAGATTTGTACCTGCGTCCGTGTGATGGA
AAAGCCCGCCAGCAGTGGCGTTTTTGACCAGATCAATGCTGTGGATGAACGATGA (SEQ ID NO: 56)

Please replace the paragraph beginning at page 53, line 24 with the following:

Human GalNAc-T13 amino acid sequence:

MLLRKRYRHRPCRLQFLLLLLMLGCVLMMVAMLHPPHHTLHQT VTAQASKHSPEARYRLDFGESQDWVLE
AEDEGEEYSPLLEGLPPFISLREDQLLVAVALPQARRNQSQGRRGGSYRLIKQPRRQDKEAPKRDWGADED
GEVSEEEELTPFSLDPRGLQEALSARIPLQRALPEVRHPLCLQQHPQDSLPTASVILCFHDEAWSTLLRT
VHSILDTVPRAFLKEIILVDDLSQQGQLKSALSEYVARLEGVKLLRSNKRLGAIRARMLGATRATGDVLV
FMDAHCECHPGWLEPLLSRIAGDRSRVVSVIDVIDWKTQYYP SKDLQRGVLDWKLDHFHWEPLPEHVRK
ALQSPISPIRSPVVPGEVVAMDRHYFQNTGAYDSLMSLRGGENLELSFKAWLCGGSVEILPCSRVGHYIQ
NQDSHSPLDQEATLRNRVRIAETWLGSKFETFYKHSPEAFSLSKAEKPDCMERLQLQRRLLGCRTFHWFLA
NVYPELYPSEPRPSFSGKLHNTGLGLCADCQAEGLGCPMV LAPCSDSRQQQYLQHTSRKEIHFGSPQH
LCFAVRQEQVILQNCTEEGLAIHQQHWFQENGMIVHILSGKCM EAVVQENNKDLYLRPCDGKARQQWRF
DQINAVDER (SEQ ID NO: 57)

Please replace the paragraph beginning at page 54, line 1 with the following:

Human GalNAc-T14 DNA sequence:

ATGAGGAGATTTGTCTACTGCAAGGTGGTTCTAGCCACTTCGCTGATGTGGGTCTTGTGTGATGTC
TTCTTACTGCTGTACTTCAGTGAATGTAACAAATGTGATGACAAGAAGGAGAGATCTCTGCTGCCTGCATTG
AGGGCTGTTATTTCAAGAAACCAAGAAGGGCCAGGAGAAATGGGAAAAGCTGTGTTGATTCCTAAAGATGAC
CAGGAGAAAATGAAAGAGCTGTTTAAATCAATCAGTTTAACTTATGGCCAGTGATTTGATTGCCCTTAAT
AGAAGTCTGCCAGATGTAAGATTAGAAGGATGTAAGACAAAAGTCTACCCTGATGAACTTCCAAACACAAGT
GTAGTCATTGTGTTTCATAATGAAGCTTGGAGCACTCTCCTTAGAACTGTTTACAGTGTGATAAATCGTTCC
CCACACTATCTACTCTCAGAGGTCATCTTGGTAGATGATGCCAGTGAAAGAGATTTTCTCAAGTTGACATTA
GAGAATTACGTGAAAAATTTAGAAGTGCCAGTAAAAATTATTAGGATGGAAGAACGCTCTGGGTAAATACGT
GCCCCGTCTTCGAGGAGCAGCTGCTTCAAAGGGCAGGTCATAACTTTTCTTGATGCACACTGTGAATGCACG
TTAGGATGGCTGGAGCCTTTGCTGGCAAGAATAAAGGAAGACAGGAAAACGGTTGTCTGCCCTATCATTGAT
GTGATTAGTGATGATACTTTTGAATATATGGCTGGGTCAGACATGACTTATGGGGGTTTTAACTGGAACTG
AATTTCCGCTGGTATCCTGTTCCCCAAAGAGAAATGGACAGGAGGAAAGGAGACAGAACATTACCTGTCAGG
ACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGAACTACTTTGAAGAGATAGGAACCTTACGATGCA
GGAATGGATATCTGGGGTGGAGAGAATCTTGAAATGTCTTTTAGGATTTGGCAATGTGGAGGCTCCTTGGAG
ATTGTTACTTGCTCCCATGTTGGTCATGTTTTTCGGAAGGCAACTCCATACACTTTTCTGGTGGCACTGGT
CATGTCATCAACAAGAACAACAGGAGACTGGCAGAAGTTTGGATGGATGAATTTAAAGATTTCTTCTACATC
ATATCCCCAGGTGTTGTCAAAGTGGATTATGGAGATGTGTGAGTCAGTCAAGAAAACACTAAGAGAAAATCTGAAG
TGTAAGCCCTTTTCTTGGTACCTAGAAAACATCTATCCGGACTCCAGATCCCAAGACGTTATTACTCACTT
GGTGAGATAAGAAATGTTGAAACCAATCAGTGTTTAGACAACATGGGCCGCAAGGAAAATGAAAAAGTGGGT
ATATTCAACTGTCATGGTATGGGAGGAAATCAGGTATTTTCTTACACTGCTGACAAAGAAATCCGAACCGAT
GACTTGTGCTTGGATGTTTCTAGACTCAATGGACCTGTAATCATGTTAAAATGCCACCATATGAGAGGAAAT
CAGTTATGGGAATATGATGCTGAGAGACTCACGTTGCGACATGTTAACAGTAACCAATGTCTCGATGAACCT

TCTGAAGAAGACAAAATGGTGCCTACAATGCAGGACTGTAGTGGAAGCAGATCCCAACAGTGGCTGCTAAGG
AACATGACCTTGGGCACATGA (SEQ ID NO: 58)

Please replace the paragraph beginning at page 54, line 25 with the following:

Human GalNAc-T14 amino acid sequence:

MRRFVYCKVVLATSLMWVLVDVFLLLYFSECNKCDDKKERSLLPALRAVISRNQEGPGEMGKAVLI
PKDDQEKMKELFKINQFNLMASDLIALNRS LPDVRLEGCKTKVYPDELPNTSVVIVFHNEAWSTLLRTVYSV
INRSPHYLLSEVILVDDASERDFLKLTLLENYVKNLEVPVKIIRMEERSGLIRARLRGAAASKGQVITFLDAH
CECTLGWLEPLLARIKEDRKTVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRT
LPVRTPTMAGGLFSIDRNYFEEIGTYDAGMDIWGGENLEMSFRIWQC GGSLEIVTCSHVGHVFRKATPYTFP
GGTGHVINKNNRRLAEVWMDEFKDFFYIISP GVVKVDYGDVSVRKT LRENLKCKPFSWYLENIYPDSQIPRR
YYSLGEIRNVETNQCLDNMGRKENEKVGI FNCHGMGGNQVFSYTADKEIRTDDLCLDVSRLNGPVI MLKCHH
MRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQDCSGSR SQWLLRNMTLGT (SEQ ID NO:
59)

Please replace the paragraph beginning at page 55, line 1 with the following:

Human GalNAc-T15 DNA sequence:

ATGCGGCGCCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCT
TCTGGGTAACCAAGAGGAAGTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGCCTTCGGACGC
TGACTGGGACGACCTGTGGGACCAGTTTGATGAGCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGT
GACGACCCCTATAAGCTGTATGCTTTCAACCAGCGGGAGAGTGAGCGGATCTCCAGCAATCGGGCCATCC
CGGACACTCGCCATCTGAGATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCAT
CACCTTCCACAACGAAGCCCGCTCCACGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACG
CATCTGATCCGGGAAATCATATTAGTGGATGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCA
AATTGCCCAAGGTGAAATGCTTGCGCAATAATGAACGGCAAGGTCTGGTCCGGTCCCGGATTCGGGGCGC
TGACATCGCCCAGGGCACCCTCTGACTTTCCTCGACAGCCACTGTGAGGTGAACAGGGACTGGCTCCAG
CCTCTGTTGCACAGGGTCAAAGAAGACTACACGCGGGTGGTGTGCCCTGTGATCGATATCATTAACCTGG
ACACCTTCACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGTTTGACTGGAGCCTCCACTTCCAGTG
GGAGCAGCTCTCCCCAGAGCAGAAGCTCGGCGCCTGGACCCACGGAAGCCCATCAGGACTCCTATCATA
GCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGGAAATATGATATGGACATGGACA
TCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGATCGTCCC
CTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTCCCTGATGGAAATGCCAACAG
TATATAAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCC
GGCCATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTG
CCAGAGCTTCAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCCTCCATCCAG

AAGGGCAATATCCGACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACCAAGAAACCCCAAACC
TAAAGTTGAGCCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACAC
CCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTCAGTCATCACCTTGTTCCTGGCGCCCCAGTGTTCTT
GTCCTTTGCAAGAATGGAGATGACCGACAGCAATGGACCAAACTGGTTCACATCGAGCACATAGCAT
CCCACCTCTGCCTCGATACAGATATGTTCCGGTGATGGCACCGAGAACGGCAAGGAAATCGTCGTCAACCC
ATGTGAGTCCCTCACTCATGAGCCAGCACTGGGACATGGTGAGCTCTTGAGGACCCCTGCCAGAAGCAGCA
AGGGCCATGGGGTGGTGCTTCCCTGGACCAGAACAGACTGGAACTGGGCAGCAAGCAGCCTGCAACCAC
CTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCAGGACAGGAGCAACTGTCTCAGGGAGGACA
GAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCACATGTTCTCAAGGCCGTTAAGTTCCAG
TCCTGGCCAGTCATTCCCTGA (SEQ ID NO: 60)

Please replace the paragraph beginning at page 55, line 29 with the following:

Human GalNAc-T15 amino acid sequence:

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVP TGPEVQTPKPSDADWDDLWDQFDERRYLNACK
WRVGDDPYKLYAFNQRESERISSNRAIPDTRHLRCTLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRT
PTHLIREIILVDDFSNDPDDCKQLIKLPKVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQ
PLLHRVKEDYTRVVCVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKLGAWTPRKPIRTPIIAG
GLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCGLSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKN
TKRTAEVWMDEYKQYYYAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQ
RQKCLESQRQNNQETPNLKLSPCAKVKGEDAKSQVWAFTYTQQILQEELCLSVITLFPGAPVVLVLCKNGDD
RQQWTKTGSHIEHIAHLCLD TDMFGDGTENGKEIVVNPCESLMSQHWDMVSS (SEQ ID NO: 61)

Please replace the paragraph beginning at page 56, line 5 with the following:

Human GalNAc-T16 DNA sequence:

ATGAGGAAGATCCGCGCCAATGCCATCGCCATCCTGACCGTAGCCTGGATCCTGGGCACCTTTCTAC
TACTTATGGCAGGACAACCGAGCCCACGCAGCATCCTCCGGCGGCCGGGGCGCGCAGAGGGCAGGCAGGAGG
TCGGAGCAGCTCCGCGAGGACCGCACCATCCCGCTCATTGTGACAGGAACCTCCCTCGAAAGGCTTTGATGAG
AAGGCCTACCTGTGCGCCAAGCAGCTGAAGGCTGGAGAGGACCCCTACAGACAGCACGCCTTCAACCAGCTG
GAGAGTGACAAGCTGAGCCCAGACCGGCCCATCCGGGACACCCGCCATTACAGCTGCCCATCTGTGTCTTAC
TCCTCGGACCTGCCAGCCACCAGCGTCATCATCACCTTCCACAATGAGGCCCGTTCCACCCTGCTGCGCACA
GTGAAGAGTGTCTGAACCGAACTCCTGCCAACTTGATCCAGGAGATCATTTTAGTGAGTACTTCAGCTCA
GATCCGGAAGACTGTCTACTCCTGACCAGGATCCCCAAGGTCAAGTGCCTGCGCAATGATCGGCGGGAAGGG
CTGATCCGGTCCCAGGTGCGTGGGGCGGACGTGGCTGCAGCTACCGTTCTCACCTTTCTGGATAGCCACTGC
GAAGTGAACACCGAGTGGCTGCCGCCATGCTGCAGCGGGTGAAGGAGGACCACACCCGCGTGGTGAGTCCC
ATCATTGATGTCATCAGTCTGGATAATTTTGCCTACCTTGCAGCATCTGCTGACCTTCGTGGAGGGTTTCGAC

TGGAGCCTGCATTTCAAGTGGGAGCAGATCCCTCTTGAGCAGAAGATGACCCGGACAGACCCACCAGGCCC
ATAAGGACGCCTGTCATAGCTGGAGGAATCTTCGTGATCGACAAGTCTTGTTTAAACCACTTGGGAAAGTAT
GATGCCCAGATGGACATCTGGGGGGGAGAGAATTTTGAGCTCTCCTTCAGGGTGTGGATGTGTGGTGGCAGT
CTGGAGATCGTCCCCTGCAGCCGGGTGGGCCATGTCTTCAGGAAACGGCACCCCTACAACCTCCCTGAGGGT
AATGCCCTCACCTACATCAGGAATACTAAGCGCACTGCAGAAGTGTGGATGGATGAATACAAGCAATACTAC
TATGAGGCCCCGGCCCTCGGCCATCGGGAAGGCCTTCGGCAGTGTGGCTACGCGGATAGAGCAGAGGAAGAAG
ATGAACTGCAAGTCTTCCGCTGGTACCTGGAGAACGTCTACCCAGAGCTCACGGTCCCCGTGAAGGAAGCA
CTCCCCGGCATCATTAAGCAGGGGGTGAAGTCTTAGAATCTCAGGGCCAGAACACAGCTGGTGACTTCCTG
CTTGGAATGGGGATCTGCAGAGGGTCTGCCAAGAACCCGAGCCCCGCCAGGCATGGCTGTTCACTGACCAC
CTCATCCAGCAGCAGGGGAAGTGCCTGGCTGCCACCTCCACCTTAATGTCTCCCTGGATCCCCAGTCATA
CTGCAGATGTGCAACCCTAGAGAAGGCAAGCAGAAATGGAGGAGAAAAGGATCTTTCATCCAGCATTCACTC
AGTGGCCTCTGCCTGGAGACAAAGCCTGCCCAGCTGGTGACCAGCAAGTGTGAGGCTGACGCCCAGGCCCCAG
CAGTGGCAGCTGTTGCCACACACATGA (SEQ ID NO: 62)

Please replace the paragraph beginning at page 56, line 30 with the following:

Human GalNAc-T16 amino acid sequence:

MRKIRANAIAILTVAWILGTFYYLWQDNRAHAASSGGRGAQRAGRRSEQLRDRTIPLIVTGTPSK
GFDEKAYLSAKQLKAGEDPYRQHAFNQLESCLKSPDRPIRDTRHYSVSVSYSSDLPATSVIITFHNEARST
LLRTVKSVLNRTTPANLIQEIILVDDFSSDPEDCLLLTRIPKVKCLRNDREGLIRSRVRGADVAAATVLTFL
DSHCEVNTIEWLPPMLQVRKEDHTRVVSPIIDVISLDFNAYLAASADLRGGFDWSLHFKWEQIPLEQKMTD
PTRPIRTPVIAGGIFVIDKSWFNHLGKYDAQMDIWGGENFELSFRVWMCSSLEIVPCSRVGHVFRKRHPYN
FPEGNALTIRNTRKTAEVWMDYKQYYEARSAPSAIGKAFGSVATRIEQRKKMNCKSFRWYLENVYPELTVP
VKEALPGIIGQVNCLESQGNQTAGDFLLGMGICRGSAPNPQPAQAWLFSDDLIIQQQKCLAATSTLMSSPG
SPVILQMCNPREGKQKWRKGSFIQHSVSGLCLETQPAQLVTSKQADAQAQWQLLPH (SEQ ID NO:
63)

Please replace the Table beginning at page 58, with the following:

Table II. Primers used for amplification of GalNAc-transferase lectin domains

GalNAc-T1 lectin domain:

T1LECFOR: 5'-CAAAGGAAGCTTATGGAGATATATCGTCAAGAG-3' (SEQ ID NO: 64)

T1LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGAATATTTCTGGAAGGGTGAC-3' (SEQ ID NO: 65)

GalNAc-T2 lectin domain:

T2LECFOR: 5'-CAAGGAAGCTTCTTATGGAAATATTCAGAGCAGATTG-3' (SEQ ID NO: 66)

T2LECREV: 5'-GCAAGCTCGAGGCGGCCGCTACTGCTGCAGGTTGAGC-3' (SEQ ID NO: 67)

GalNAc-T3 lectin domain:

T3LECFOR: 5'-CAAGGAAGCTTCATTTGGTGATCTTTCAAAAAGATTT-3' (SEQ ID NO: 68)
T3LECREV: 5'-GCAAGCTCGAGGCGGCCGCAGGAACACTTAATCATTTTGG-3' (SEQ ID NO: 69)

GalNAc-T4 lectin domain:

T4LECFOR: 5'-AGAAAAGAAGCTTATGGTGATATTTCTG-3' (SEQ ID NO: 70)
EBHC307: 5'-AGCGGATCCGACGAAGTGCTGTTGTGCT -3' (SEQ ID NO: 71)

GalNAc-T5 lectin domain:

T5LECFOR: 5'-CAAGGAAGCTTTAGATGTTGGCAACCTCACCCAGC-3' (SEQ ID NO: 72)
T5LECREV: 5'-GCAAGCTCGAGGCGGCCGCAAGCATCAGTTACACTTCAGGCTTC-3' (SEQ ID NO: 73)

GalNAc-T6 lectin domain:

T6LECFOR: 5'-CAAGGAAGCTTCCTTCGGTGACATTTTCGGAACG-3' (SEQ ID NO: 74)
T6LECREV: 5'-GCAAGCTCGAGGCGGCCGCTGGGTCCTAGACAAAGAGCC-3' (SEQ ID NO: 75)

GalNAc-T7 lectin domain:

T7LECFOR: 5'-AGAAAAGAAGCTTATGGGGATATATCGGAGCTG-3' (SEQ ID NO: 76)
T7LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCTCTAAACACTATGGATGTTATTC-3' (SEQ ID NO: 77)

GalNAc-T8 lectin domain:

T8LECFOR: 5'-CAAGGAAGCTTTTGGAGACGTTTCTTCCAGAATG-3' (SEQ ID NO: 78)
T8LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCACTGGCTGTTGGTCTGACCCC-3' (SEQ ID NO: 79)

GalNAc-T9 lectin domain:

T9LECFOR: 5'-CAAGGAAGCTTTCGGGGACGTGTCTGAGAGGCTG-3' (SEQ ID NO: 80)
T9LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGTGCCGTGCGTGTTTGATCC -3' (SEQ ID NO: 81)

GalNAc-T10 lectin domain:

T10LECFOR: 5'-CAAGGAAGCTTCCGCTGGGGATGTGCGAGTCCAG-3' (SEQ ID NO: 82)
T10LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGTTCCTATTGAATTTTCC-3' (SEQ ID NO: 83)

GalNAc-T11 lectin domain:

T11LECFOR: 5'-CAAGGAAGCTTGCAATATCAGTGAGCGTGTGG-3' (SEQ ID NO: 84)
T11LECREV: 5'-GCAAGCTCGAGGCGGCCGCCCCACCTTAACCTTCCAAATGC-3' (SEQ ID NO: 85)

GalNAc-T12 lectin domain:

T12LECFOR: 5'-CAAGGAAGCTTGGGATGTGACAGAGAGGAAG-3' (SEQ ID NO: 86)
T12LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATAACATGCGCTCTTTGAAGAACC-3' (SEQ ID NO: 87)

GalNAc-T13 lectin domain:

T13LECFOR: 5'-CAAGGAAGCTTCTGAGAAGCCAGACTGCATGG-3' (SEQ ID NO: 88)
T13LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATCGTTCATCCACAGCATTG-3' (SEQ ID NO: 89)

GalNAc-T14 lectin domain:

T14LECFOR: 5'-CAAGGAAGCTTATGGAGATGTGTCAGTCAGAAAAAC-3' (SEQ ID NO: 90)
T14LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATGTGCCCAAGGTCATGTTCC-3' (SEQ ID NO: 91)

GalNAc-T15 lectin domain:

T15LECFOR: 5'-CAAGGAAGCTTTCGGGAATGTTGAGAGCAGATTG-3' (SEQ ID NO: 92)
T15LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAAGAACTCACCATGTCCCAGTG-3' (SEQ ID NO: 93)

GalNAc-T16 lectin domain:

T16LECFOR: 5'-CAAGGAAGCTTGCAGTGTGGCTACGCGGATAGAGCAGAGG-3' (SEQ ID NO: 94)

T16LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATGTGTGTGGCAACAGCTGCC-3' (SEQ ID NO: 95)

Please replace the paragraph beginning at page 59, line 18 with the following (please note that the text on page 59, line 24 "TGA-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T1 LECTIN DNA sequence

AAAGAAGCTTATGGAGATATATCGTCAAGAGTTGGTCTAAGACACAACTACAATGCAAACCTTTTTCCT
GGTACCTAGAGAATATATATCCTGATTCTCAAATTCCACGTCACTATTTCTCATTGGGAGAGATACGAAA
TGTGGAACGAATCAGTGTCTAGATAACATGGCTAGAAAAGAGAATGAAAAAGTTGGAATTTTAAATTGC
CATGGTATGGGGGGTAATCAGGTTTTCTCTTATACTGCCAACAAAGAAATTAGAACAGATGACCTTTGCT
TGGATGTTTCCAACTTAATGGCCAGTTACAATGCTCAAATGCCACCACCTAAAAGGCAACCAACTCTG
GGAGTATGACCCAGTGAAATTAACCTGCAGCATGTGAACAGTAATCAGTGCCTGGATAAAGCCACAGAA
GAGGATAGCCAGGTGCCCAGCATTAGAGACTGCAATGGAAGTCGGTCCCAGCAGTGGCTTCTTCGAAACG
TCACCTTCCAGAAATATTT**TGA-stop** (SEQ ID NO: 96)

Please replace the paragraph beginning at page 59, line 29 with the following:

T1 LECTIN Amino acid sequence

YGDISSRVGLRHKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDNMARKENEKVGI FNCHGM
GGNQVFSYTANKEIRTDLCLDVSKLNGPVTMLKCHHLKGNQLWEYDPVKLTQLQHVNSNQCLDKATEEDS
QVPSIRDCNGSRSQQWLLRNVTLP EIF* (SEQ ID NO: 97)

Please replace the paragraph beginning at page 60, line 1 with the following (please note that the text on page 60, line 8 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T2 LECTIN DNA sequence

TATCCAGAGTTAAGGGTTCCAGACCATCAGGATATAGCTTTTGGGGCCTTGCAGCAGGGAACTAACTGCC
TCGACACTTTGGGACACTTTGCTGATGGTGTGGTTGGAGTTTATGAATGTCACAAATGCTGGGGGAAACCA
GGAATGGGCCTTGACGAAGGAGAAGTCGGTGAAGCACATGGATTGTGCCTTACTGTGGTGGACCGGGCA

CCGGGCTCTCTTATAAAGCTGCAGGGCTGCCGAGAAAATGACAGCAGACAGAAATGGGAACAGATCGAGG
GCAACTCCAAGCTGAGGCACGTGGGCAGCAACCTGTGCCTGGACAGTCGCACGGCCAAGAGCGGGGGCCT
AAGCGTGGAGGTGTGTGGCCCGGCCCTTTCGCAGCAGTGGAAGTTCACGCTCAACCTGCAGCAG**TAG-**
stop (SEQ ID NO: 98)

Please replace the paragraph beginning at page 60, line 10 with the following:

T2 LECTIN Amino acid sequence

YPELRVPDHQDIAFGALQQGTNCLDTLGHFADGVVGVYECHNAGGNQEWALTKEKSVKHMDLCLTVVDRA
PGSLIKLQGCRENDSRQKWEQIEGNSKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFTLNLQQ*
(SEQ ID NO: 99)

Please replace the paragraph beginning at page 60, line 20 with the following (please note that the text on page 60, line 28 "TAA-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T3 LECTIN DNA sequence

TCATTTGGTGATCTTTCAAAAAGATTTGAAATAAAACACCGTCTTCGGTGTA AAAATTTTACATGGTATC
TGAACAACATTTATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACATTA AAAAGCGT
TGGTCAGCCTCTATGTCTGGATGTTGGAGAAAACAATCAAGGAGGCAAACCATTAATTATGTATACATGT
CATGGACTTGGGGGAAACCAGTACTTTGAATACTCTGCTCAACATGAAATTTCGGCACAACATCCAGAAGG
AATTATGTCTTCATGCTGCTCAAGGTCTCGTTTCAAGGATCAACTTCTATACAATCCATTCTTAAAAATGTGC
CTTTCAGCAAATGGAGAGCATCCAAGTTTAGTGTGTCATGCAACCCATCAGATCCACTCCAAAAATGGATAC
TTAGCCAAAATGAT**TAA-stop** (SEQ ID NO: 100)

Please replace the paragraph beginning at page 60, line 30 with the following:

T3 LECTIN Amino acid sequence

FGDLSKRFEIKHRLRCKNFTWYLNNIYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQGGKPLIMYTCH
GLGGNQYFEYSAQHEIRHNIQKELCLHAAQLVQLKACTYKGHKTVVTGEQIWEIQKDQLLYNPFLKMCL
SANGEHPSLVSCNPSDPLQKWILSQND* (SEQ ID NO: 101)

Please replace the paragraph beginning at page 60, line 40 with the following (please note that the text on page 61, line 3 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T4 LECTIN DNA sequence

GAGGATAGACCAGGCTGGCATGGGGCTATTTCGCAGTAGAGGGATCTCGTCTGAATGTTTAGATTATAATT
CTCCTGACAACAACCCACAGGTGCTAACCTTTCACTGTTTGGATGCCATGGTCAAGGAGGCAATCAATT
CTTTGAATATACTTCAAACAAAGAAATAAGGTTTAATTCTGTGACAGAGTTATGTGCAGAGGTACCTGAG
CAAAAAAATTATGTGGGAATGCAAAATTGTCCCAAAGATGGGTTCCCTGTACCAGCAAACATTATTTGGC
ATTTTAAAGAAGATGGAACATTTTTTCACCCACACTCAGGACTGTGTCTTAGTGCTTATCGGACACCGGA
GGGCCGACCTGATGTACAAATGAGAACTTGTGATGCTCTAGATAAAAAATCAAATTTGGAGTTTTGAGAAA
TAG-stop (SEQ ID NO: 102)

Please replace the paragraph beginning at page 61, line 5 with the following:

T4 LECTIN Amino acid sequence

AYGDISERKLLRERLRCKSFWDYLNKVFNP LHPEDRPGWHGAIRSRGISSECLDYN SPDNNPTGANLSL
FGCHGQGGNQFFEYTSNKEIRFNSVTELCAEVPEQKNYVGMQNC PKDGFVPANI IWHFKEDGTIFHPHS
GLCLSAYRTPEGRPDVQMRTCDALDKNQIWSFEK* (SEQ ID NO: 103)

Please replace the paragraph beginning at page 61, line 15 with the following (please
note that the text on page 61, line 23 "TGA-stop" has not been added by way of this
amendment. This text was underlined and bolded in the specification as filed and it
should be underlined in the unmarked version of this paragraph):

T5 LECTIN DNA sequence

TTAGATGTTGGCAACCTCACCCAGCAAAGGGAGCTGCGAAAGAACTGAAGTGCAAAAGTTTCAAATGGT
ACTTGAGAAATGTCTTTCCTGACTTAAGGGCTCCCATTTGTGAGAGCTAGTGGTGTGCTTATTAATGTGGC
TTTGGGTAAATGCATTTCCATTGAAAACACTACAGTCATTCTGGAAGACTGCGATGGGAGCAAAGAGCTT
CAACAATTTAATTACACCTGGTTAAGACTTATTAAATGTGGAGAATGGTGTATAGCCCCCATCCCTGATA
AAGGAGCCGTAAGGCTGCACCTTGTGATAACAGAAACAAAGGGCTAAAATGGCTGCATAAATCAACATC
AGTCTTTCATCCAGAACTGGTGAATCACATTGTTTTTGAACAATCAGCAATTATTATGCTTGGAAGGA
AATTTTCTCAAAGATCCTGAAAGTAGCTGCCTGTGACCCAGTGAAGCCATATCAAAGTGGAATTTG
AAAAATATTATGAAGCCT**TGA-stop** (SEQ ID NO: 104)

Please replace the paragraph beginning at page 61, line 27 with the following:

T5 LECTIN Amino acid sequence

DVGNLTQQRELRLKKLKCKSFKWYLENVFPDLRAPIVRASGVLIN VALGKCISIENTTVILED CDGSKELQ
QFN YTWLRLIKGEWCI APIPDKGAVRLHPCDNRNKG LKWLHKSTSVFHP ELVNHIVFENNQQLLCLEGN
FSQKILKVAACDPVKPYQWKFEKY YEA* (SEQ ID NO: 105)

Please replace the paragraph beginning at page 61, line 36 with the following (please

note that the text on page 61, line 44 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T6 LECTIN DNA sequence

TCCTTCGGTGACATTTTCGGAACGACTGCAGCTGAGGGAACAACCTGCACTGTCACAACCTTTTCCTGGTACC
TGCACAATGTCTACCCAGAGATGTTTGTTCCTGACCTGACGCCACCTTCTATGGTGCCATCAAGAACCT
CGGCACCAACCAATGCCTGGATGTGGGTGAGAACAACCGCGGGGGGAAGCCCCCTCATCATGTACTCCTGC
CACGGCCTTGGCGGCAACCAGTACTTTGAGTACACAACCTCAGAGGGACCTTCGCCACAACATCGCAAAGC
AGCTGTGTCTACATGTCTAGCAAGGGTGCTCTGGGCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCA
GGTCCCCAAGGACGAGGAATGGGAATTGGCCCAGGATCAGCTCATCAGGAACTCAGGATCTGGTACCTGC
CTGACATCCCAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCCAGTGACCCCCATCAGTTGTGGCTCT
TTGTCT**TAG-stop** (SEQ ID NO: 106)

Please replace the paragraph beginning at page 61, line 46 with the following:

T6 LECTIN Amino acid sequence

SFGDISERLQLREQLHCHNFSWYLHNVPEMFVPDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMYSC
HGLGGNQYFEYTTQRDLRHNIQQLCLHVS KALGLG SCHFTGKNSQVPKDEEWELAQDQLIRNSGSGTC
LTSQDKKPAMAPCNPSDPHQLWLFV* (SEQ ID NO: 107)

Please replace the paragraph beginning at page 62, line 10 with the following (please note that the text on page 62, line 18 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T7 LECTIN DNA sequence

TATGGGGATATATCGGAGCTGAAAAAATTTTCGAGAAGATCACAACTGCCAAAGTTTTAAGTGGTTCATGG
AAGAAATAGCTTATGATATCACCTCACACTACCCTTTGCCACCCAAAAATGTTGACTGGGGAGAAATCAG
AGGCTTCGAAACTGCTTACTGCATTGATAGCATGGGAAAAACAAATGGAGGCTTTGTTGAACTAGGACCC
TGCCACAGGATGGGAGGGAATCAGCTTTTCAGAATCAATGAAGCAAATCAACTCATGCAGTATGACCAGT
GTTTGACAAAGGGAGCTGATGGATCAAAAGTTATGATTACACACTGTAATCTAAATGAATTTAAGGAATG
GCAGTACTTCAAGAACCTGCACAGATTTACTCATATTCCTTCAGGAAAGTGTTTAGATCGCTCAGAGGTC
CTGCATCAAGTATTCATCTCCAATTGTGACTCCAGTAAAACGACTCAAAAATGGGAAATGAATAACATCC
ATAGTGTT**TAG-stop** (SEQ ID NO: 108)

Please replace the paragraph beginning at page 62, line 20 with the following:

T7 LECTIN Amino acid sequence

YGDISELKKFREDHNCQSFKWFMEEIAYDITSHYPLPPKNVDWGEIRGFETAYCIDS MGKTNGGFVELGPCHR
MGGNQLFRINEANQLMQYDQCLTKGADGSKVMITHCNLNEFKEWQYFKNLHRFTHIPSGKCLDRSEVLHQVFI
SNCDSSKTTQKWEMNNIHSV* (SEQ ID NO: 109)

Please replace the paragraph beginning at page 62, line 30 with the following:

T8 LECTIN DNA sequence

GACGTTTCTTCCAGAATGGCACTCCGGGAAAACTGAAATGTAAACTTTTGA CTGGTACCTGAAAAATGTTT
ATCCACTCTTGAAGCCACTCCACACCATCGTGGGCTATGGAAGAATGAAAACTATTGGATGAAAAATGTCTG
CTTGGATCAGGGACCCGTTCCAGGCAACACCCCCATCATGTATTACTGCCATGAATTCAGCTCACAGAATGTC
TACTATCACCTAACTGGGGAGCTCTATGTGGGCAACTGATTGCAGAGGCCAGTGCTAGTGATCGCTGCCTGA
CAGACCTTGGCAAGGCGGAGAAGCCCACCTTAGAACCATGCTCCAAGGCAGCTAAGAATAGACTGCATATATA
TTGGGATTTTAAACCGGGAGGAGCTGTCTATAAACAGAGATACCAAGCGGTGTCTGGAGATGAAGAAGGATCTT
TTGGGTAGCCACGTGCTTGTGCTCCAGACCTGTAGCACGCAAGTGTGGGAAATCCAGCACACTGTCAGAGACT
GGGGTCAGACCAACAGCCAGTGA// (SEQ ID NO: 110)

Please replace the paragraph beginning at page 62, line 42 with the following:

T8 LECTIN Amino acid sequence

FGDVSSRMALREKLKCKTFDWYLNKVNYP L LKPLHTIVGYGRMKNLLDENVC LDQGPVPGNTPI MY YCHEFSSQ
NVYYHLTGELYVGQLIAEASASDRCLTDPGKA EKPTLEPCSKAAKNRLHIYWDFKPGGAVINRDTKRCLEMKK
DLLGSHVLVLQTCSTQVWEIQHTVRDWGQTNSQ// (SEQ ID NO: 111)

Please replace the paragraph beginning at page 63, line 5 with the following (please note that the text on page 63, line 14 "TGA-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T9 LECTIN DNA sequence

TTCGGGGACGTGTCTGAGAGGCTGGCCCTGCGTCAGAGGCTGAAGTGTGCGAGCTTCAAGTGGTACCTGG
AGAACGTGTACCCGGAGATGAGGGTCTACAACAACACCCTCACGTACGGAGAGGTGAGAAACAGCAAAGC
CAGTGCCTACTGTCTGGACCAGGGAGCGGAGGACGGCGACCGGGCGATCCTCTACCCCTGCCACGGGATG
TCCTCCAGCTGGTGCGGTACAGCGCTGACGGCCTGCTGCAGCTGGGGCCTCTGGGCTCCACAGCCTTCT
TGCCTGACTCCAAGTGTCTGGTGGATGACGGCACGGGCCGCATGCCACCCTGAAGAGGTGTGAGGATGT
GGCGCGGCCAACACAGCGGCTGTGGGACTTCACCCAGAGTGGCCCCATTGTGAGCCGGGCCACGGGCCGC
TGCCTGGAGGTGGAGATGTCCAAAGATGCCAACTTTGGGCTCCGGCTGGTGGTACAGAGGTGCTCGGGGC
AGAAGTGGATGATCAGAACTGGATCAAACACGCACGGCACT**TGA-stop** (SEQ ID NO: 112)

Please replace the paragraph beginning at page 63, line 16 with the following:

T9 LECTIN Amino acid sequence

FGDVSERLALRQRLKCRSFKWYLENVYPEMRVYNNTLTLYGEVRNSKASAYCLDQGAEDGDRAILYPCHGMSSQ
LVRY SADGLLQLGLPLGSTAFLPDSKCLVDDGTGRMPTLKRCEDEVARPTQRLWDFTQSGPIVSRATGRCLEVEM
SKDANFGLRLVVRCSGQKWMIRNWIKHARH* (SEQ ID NO: 113)

Please replace the paragraph beginning at page 63, line 27 with the following:

T10 LECTIN DNA sequence

GCTGGGGATGTTCGAGTCCAGAAAAAGCTCCGCAGCTCCCTTAACTGCAAGAGTTTCAAGTGGTTTATGA
CGAAGATAGCCTGGGACCTGCCCAAATCTACCCACCCGTGGAGCCCCGGCTGCAGCTTGGGGGGAGAT
CCGAAATGTGGGCACAGGGCTGTGTGCAGACACAAAGCACGGGGCCTTGGGCTCCCCACTAAGGCTAGAG
GGCTGCGTCCGAGGCCGTGGGGAGGCTGCCTGGAACAACATGCAGGTATTCACCTTCACCTGGAGAGAGG
ACATCCGGCCTGGAGACCCCCAGCACACCAAGAAGTTCTGCTTTGATGCCATTTCCACACACAGCCCTGT
CACGCTGTACGACTGCCACAGCATGAAGGGCAACCAGCTGTGGAAATACCGCAAAGACAAGACCTGTAC
CACCTGTGAGTGGCAGCTGCATGGAAGTGCAGTGAAAGTGACCATAGGATCTTCATGAACACCTGCAACC
CATCCTCTCTACCCAGCAGTGGCTGTTTGAACACACCAACTCAACAGTCTTGGAAAAATTCAATAGGAA
CTGA (SEQ ID NO: 114)

Please replace the paragraph beginning at page 63, line 37 with the following:

T10 LECTIN Amino acid sequence

AGDVAVQKKLRSSLNCKSFKWFMTKIAWDLPKFYPPVEPPAAAWGEIRNVGTGLCADTKHGALGSPLRLEGCV
RGRGEAAWNNMQVFTFTWREDIRPGDPQHTKKFCFDAISHTSPVTLYDCHSMKGNQLWKYRKDKTLYHPVSGS
CMDCESEDHRIFMNTCNPSSLTQQWLFHTNSTVLEKFNRN* (SEQ ID NO: 115)

Please replace the paragraph beginning at page 63, line 47 with the following:

T11 LECTIN DNA sequence

TGCAATATCAGTGAGCGTGTGGAAGTGGAAAGAGTTGGGCTGTAAATCATTTAAATGGTATTTGGATA
ATGTATACCCAGAGATGCAGATATCTGGGTCCACGCCAAACCCCAACAACCCATTTTGTCAATAGAGG
GCCAAAACGACCCAAAGTCCTTCAACGTGGAAGGCTCTATCACCTCCAGACCAACAAATGCCTGGTGGCC
CAGGGCCGCCAAGTCAGAAGGGAGGTCTCGTGGTGCTTAAGGCCTGTGACTACAGTGACCCAAATCAGA
TCTGGATCTATAATGAAGAGCATGAATTGGTTTTAAATAGTCTCCTTTGTCTAGATATGTCAGAGACTCG
CTCATCAGACCCGCCACGGCTCATGAAATGCCACGGGTGAGGAGGATCCAGCAGTGGACCTTTGGGAAA
AACAAATCGGCTATACAGGTGTGCGTTGGACAGTGCCTGAGAGCAGTGGATCCCCTGGGTGAGAAGGGCT
CTGTGCGCATGGCGATCTGCGATGGCTCCTCTTACAGCAGTGGCATTTGGAAGGTAA (SEQ ID NO: 116)

Please replace the paragraph beginning at page 64, line 9 with the following:

T11 LECTIN Amino acid sequence

NISERVELRKKLGCKSFKWYLDNVYPEMQISGSHAKPQQPIFVNRGPKRPKVLQGRGLYHLQTNKCLVAQGRP
SQKGLVVLKACDYSDPNQIWIYNEEHELVLNSLLCLDMSETRSSDPRLMKCHGSGGSQQWTFGKNNRLYQV
SVGQCLRAVDPLGQKGSVAMAICDGSSSQWHLEG* (SEQ ID NO: 117)

Please replace the paragraph beginning at page 64, line 20 with the following:

T12 LECTIN DNA sequence

TGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAGACTTCAAGTGGTTCTTGGAGA
CTGTGTATCCAGAACTGCATGTGCCTGAGGACAGGCCTGGCTTCTTCGGGATGCTCCAGAACAAAGGACT
AACAGACTACTGCTTTGACTATAACCTCCCGATGAAAACCAGATTGTGGGACACCAGGTCATTCTGTAC
CTCTGTTCATGGGATGGGCCAGAATCAGTTTTTTCGAGTACACGTCCCAGAAAGAAATACGCTATAACACCC
ACCAGCCTGAGGGCTGCATTGCTGTGGAAGCAGGAATGGATACCCTTATCATGCATCTCTGCGAAGAAAC
TGCCCCAGAGAATCAGAAATTTCATCTTGCAGGAGGATGGATCTTTATTTACGAACAGTCCAAGAAATGT
GTCCAGGCTGCGAGGAAGGAGTCGAGTGACAGTTTCGTTCCACTCTTACGAGACTGCACCAACTCGGATC
ATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGA (SEQ ID NO: 118)

Please replace the paragraph beginning at page 64, line 31 with the following:

T12 LECTIN Amino acid sequence

DVTERKQLRDKLQCKDFKWFLETVPYELHVPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYL
CHGMGQNQFFEYTSQKEIRYNTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFILOEDGSLFHEQSKKCV
QAARKESSDSFVPLLRDCTNSDHQKWFFKERML* (SEQ ID NO: 119)

Please replace the paragraph beginning at page 64, line 41 with the following:

T13 LECTIN DNA sequence

TCTGAGAAGCCAGACTGCATGGAACGCTTGCAGCTGCAAAGGAGACTGGGTTGTGCGACATTCCACTGGT
TTCTGGCTAATGTCTACCTGAGCTGTACCCATCTGAACCCAGGCCAGTTTCTCTGGAAAGCTCCACAA
CACTGGACTTGGGCTCTGTGCAGACTGCCAGGCAGAAGGGACATCCTGGGCTGTCCCATGGTGTGGCT
CCTTGCACTGACAGCCGGCAGCAACAGTACCTGCAGCACACCAGCAGGAAGGAGATTCACTTTGGCAGCC
CACAGCACCTGTGCTTTGCTGTGAGGAGGAGCAGGTGATTCTTCAGAACTGCACGGAGGAAGGCCTGGC
CATCCACCAGCAGCACTGGGACTTCCAGGAGAATGGGATGATTGTCCACATTCTTTCTGGGAAATGCATG
GAAGCTGTGGTGCAAGAAAACAATAAAGATTTGTACCTGCGTCCGTGTGATGGAAAAGCCCGCCAGCAGT
GGCGTTTTGACCAGATCAATGCTGTGGATGAACGATGA (SEQ ID NO: 120)

Please replace the paragraph beginning at page 65, line 4 with the following:

T13 LECTIN Amino acid sequence

EKPDCMERLQLQRRLLGCRTFHWFLANVYPELYPSEPRPSFSGKLHNTGLGLCADCQAEGLGCPMVLAP
CSDSRQQQYLQHTSRKEIHFGSPQHLCFVRQEQVILQNCTEEGLAIHQHWFQENGMIVHILSGKCME
AVVQENNKDLYLRPCDQKARQQWRFDQINAVDER* (SEQ ID NO: 121)

Please replace the paragraph beginning at page 65, line 14 with the following:

T14 LECTIN DNA sequence

TATGGAGATGTGTCACTCAGAAAACTAAGAGAAAATCTGAAGTGTAAAGCCCTTTTCTTGGTACCTAG
AAAACATCTATCCGGACTCCCAGATCCCAAGACGTTATTACTCACTTGGTGAGATAAGAAATGTTGAAAC
CAATCAGTGTTTAGACAACATGGGCCGCAAGGAAAATGAAAAGTGGGTATATTCAACTGTCATGGTATG
GGAGGAAATCAGGTATTTTCTTACACTGCTGACAAAGAAATCCGAACCGATGACTTGTGCTTGGATGTTT
CTAGACTCAATGGACCTGTAATCATGTTAAAATGCCACCATATGAGAGGAAATCAGTTATGGGAATATGA
TGCTGAGAGACTCACGTTGCGACATGTTAACAGTAACCAATGTCTCGATGAACCTTCTGAAGAAGACAAA
ATGGTGCCTACAATGCAGGACTGTAGTGGAAGCAGATCCCAACAGTGGCTGCTAAGGAACATGACCTTGG
GCACATGA (SEQ ID NO: 122)

Please replace the paragraph beginning at page 65, line 24 with the following:

T14 LECTIN Amino acid sequence

YGDVSVRKTLRENKCKPFSWYLENIYPDSQIPRRYSLGEIRNVETNQCLDNMGRKENEKVGI FNCHGMGGN
QVFSYTADKEIRTDLDLCLDVSRNLNGPVI MLKCHMRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQ
DCSGSRSQWLLRNMTLGT* (SEQ ID NO: 123)

Please replace the paragraph beginning at page 65, line 34 with the following:

T15 LECTIN DNA sequence

TCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAAATCTGCGCTGCCAGAGCTTCAAGTGGTACCTGGA
GAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCTCCATCCAGAAGGGCAATATCCGACAGAGACAG
AAGTGCCTGGAATCTCAAAGGCAGAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCCTGTGCCAAGG
TCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACACCCAGAAGATCCTCCAGGAGGAGCT
GTGCCTGTCAGTCATCACCTTGTTCCCTGGCGCCCCAGTGGTTCTTGTCCTTTGCAAGAATGGAGATGAC
CGACAGCAATGGACCAAACTGGTTCCACATCGAGCACATAGCATCCACCTCTGCCTCGATACAGATA
TGTTCCGGTGATGGCACCGAGAACGGCAAGGAAATCGGCGTCAACCCATGTGAGTCCTCACTCATGAGCCA
GCACTGGGACATGGTGAGTTCTTGAG (SEQ ID NO: 124)

Please replace the paragraph beginning at page 65, line 45 with the following:

T15 LECTIN Amino acid sequence

FGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESQRQNNQETPNLKLSPCAK
VKGEDAKSQVWAFTYTQKILQEELCLSVITLFPGAPVVLVLCKNGDDRQWTKTGSHIEHIAHLCLDTD
MFGDGTENGKEIGVNPCESSLMSQHWDMVSS* (SEQ ID NO: 125)

Please replace the paragraph beginning at page 66, line 6 with the following:

T16 LECTIN DNA sequence

AGTGTGGCTACGCGGATAGAGCAGAGGAAGAAGATGAACTGCAAGTCCTTCCGCTGGTACCTGGAGAACGTCT
ACCCAGAGCTCACGGTCCCCGTGAAGGAAGCACTCCCCGGCATCATTAAAGCAGGGGGTGAAGTGCTTAGAATC
TCAGGGCCAGAACACAGCTGGTGACTTCCTGCTTGGAATGGGGATCTGCAGAGGGTCTGCCAAGAACCCGCAG
CCCGCCCAGGCATGGCTGTTTCAGTGACCACCTCATCCAGCAGCAGGGGAAGTGCCTGGCTGCCACCTCCACCT
TAATGTCCTCCCCTGGATCCCCAGTCATACTGCAGATGTGCAACCCTAGAGAAGGCAAGCAGAAATGGAGGAG
AAAAGGATCTTTCATCCAGCATTTCAGTCAGTGGCCTCTGCCTGGAGACAAAGCCTGCCAGCTGGTGACCAGC
AAGTGTCAGGCTGACGCCCAGGCCAGCAGTGGCAGCTGTTGCCACACACATGA (SEQ ID NO: 126)

Please replace the paragraph beginning at page 66, line 6 with the following:

T16 LECTIN Amino acid sequence

SVATRIEQRKKMNCKSFRWYLENVPELTPVPKEALPGI IKQGVNCLSQGQNTAGDFLLGMGICRGS AKNP
QPAQAWLFSDHLIQQGGKCLAASTLMSSPGSPVILQMCNPREGKQKWRKGSFIQHSVSGLCLETKPAQLV
TSKCQADAQAQQWQLLPHT* (SEQ ID NO: 127)

After page 95 and before the claims, please insert a paper copy of the Sequence Listing.